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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Construction of Concrete road and drains at Doddabettahalli Colony

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	10 sets /300-350 cum	346.81	20	20

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M : 9972924526 | Tel : +91 80 23444804 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2024-05-21-09** **Date: 14-03-24**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-03-24

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 12-03-24

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.65	–
2	Finess by Air permeablity method (m^2/kg,Min)	296.7	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
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Samples will be disposed after 30 days from the date of issue of test certificate

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Authorized Signatory
Quality Manager

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ಜ ಜ.ಆ.ಪ. ಬೆಂಗಳೂರು-೫೬

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2024-05-21-09**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 10-04-24**
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Concrete road and drains at Doddabettahalli Colony
Agency	:	Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-03-24
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	12-03-24
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2024-05-21-09** **Date: 14-03-24**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Concrete road and drains at Doddabettahalli Colony
Agency	:	Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-03-24
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-03-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	429	429	2.9	97.1	90-100
3	20 mm	7195	7624	50.8	49.2	30-70
4	10 mm	3859	11483	76.6	23.4	10-35
5	4.75 mm	2953	14436	96.2	3.8	0-5
6	Pan	564	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-05-21-09** **Date: 14-03-24**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.19	–

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-05-21-09** **Date: 13-03-24**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-03-24

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 11-03-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	155	155	3.1	96.9	90-100
3	10 mm	3344	3499	70.0	30.0	25-55
4	4.75 mm	1377	4876	97.5	2.5	0-10
5	Pan	124	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-05-21-09** **Date: 13-03-24**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Format No: CP/TF/01

Lab ID : **CP-2024-05-21-09**

Date: 13-03-24

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-03-24

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-03-24

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	154	192	19.2	80.8	60-95	75-100	85-100	95-100
4	1.18 mm	202	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	193	587	58.7	41.3	15-34	35-59	60-79	80-100
6	300 micron	183	770	77.0	23.0	5-20	8-30	12-40	15-50
7	150 micron	141	911	91.1	8.9	0-10	0-10	0-10	0-15
8	Pan	89	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2024-05-21-09**

Date: 13-03-24

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.6	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	8.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Format No: CP/TF/01

Lab ID : **CP-2024-05-21-09**

Date: 12-03-24

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-03-24

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test : 11-03-24

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.391	568	678	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	583	689	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	596	697	20.0%	Satisfactory	Satisfactory

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID : **CP-2024-05-21-09**

Date: 30-03-24

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-03-24

Sample Type /Size : Precast Cover Slab - 230mm thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 26/03/2024

Grade of Slab : M25

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.38	230.57	2.816	4702	133.4	28.4	26.4	33.0
2	Cover Slab-2	77.65	230.47	2.837	4735	135.6	28.6	26.6	33.3
3	Cover Slab-3	77.53	230.52	2.829	4720	132.2	28.0	26.0	32.6

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 22/04/2024

Lab ID	:	**CP-2024-05-21-09**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Concrete road and drains at Doddabettahalli Colony
Agency	:	Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-24
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	25/03/2024	22/04/2024	150.06 X 150.82 X 150.42	22633	8.882	540.3	23.9	23.8
2	Drain Bottom Raft Concrete	M20	25/03/2024	22/04/2024	150.84 X 150.16 X 150.62	22651	8.162	533.7	23.6	
3	Drain Bottom Raft Concrete	M20	25/03/2024	22/04/2024	150.26 X 150.60 X 150.38	22628	8.824	540.8	23.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-05-21-09**

Date: 01/04/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-03-24

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	25/03/2024	01/04/2024	150.40 X 150.39 X 150.23	22618	8.949	338.8	15.0	14.6
2	Drain Bottom Raft Concrete	M20	25/03/2024	01/04/2024	150.88 X 150.48 X 150.61	22704	8.725	325.6	14.3	
3	Drain Bottom Raft Concrete	M20	25/03/2024	01/04/2024	150.33 X 150.67 X 150.39	22651	8.476	326.1	14.4	

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Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-05-21-09**

Date: 02/04/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-03-24

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	26/03/2024	02/04/2024	150.15 X 150.10 X 150.29	22539	8.114	317.5	14.1	14.1
2	Drain Bottom Raft Concrete	M20	26/03/2024	02/04/2024	150.56 X 150.87 X 150.82	22716	8.311	324.0	14.3	
3	Drain Bottom Raft Concrete	M20	26/03/2024	02/04/2024	150.11 X 150.49 X 150.29	22590	8.632	316.8	14.0	

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/04/2024

Lab ID	:	**CP-2024-05-21-09**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Concrete road and drains at Doddabettahalli Colony
Agency	:	Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-24
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	26/03/2024	23/04/2024	150.21 X 150.21 X 150.22	22562	8.695	539.5	23.9	
2	Drain Bottom Raft Concrete	M20	26/03/2024	23/04/2024	150.28 X 150.21 X 150.37	22574	8.244	534.0	23.7	23.8
3	Drain Bottom Raft Concrete	M20	26/03/2024	23/04/2024	150.43 X 150.12 X 150.68	22583	8.873	540.2	23.9	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 04/04/2024

Lab ID	:	**CP-2024-05-21-09**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Concrete road and drains at Doddabettahalli Colony
Agency	:	Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-03-24
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/03/2024	04/04/2024	150.61 X 150.91 X 150.47	22728	8.737	321.7	14.2	14.2
2	Drain Side Wall Concrete	M20	28/03/2024	04/04/2024	150.86 X 150.94 X 150.96	22771	8.543	324.8	14.3	
3	Drain Side Wall Concrete	M20	28/03/2024	04/04/2024	150.85 X 150.77 X 150.54	22743	8.614	319.2	14.0	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-05-21-09**

Date: 04/04/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-24

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/03/2024	04/04/2024	150.85 X 150.46 X 150.70	22697	8.825	320.1	14.1	14.3
2	Drain Side Wall Concrete	M20	28/03/2024	04/04/2024	150.66 X 150.36 X 150.42	22654	8.815	328.3	14.5	
3	Drain Side Wall Concrete	M20	28/03/2024	04/04/2024	150.52 X 150.39 X 150.04	22636	8.553	326.7	14.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-05-21-09**

Date: 06/04/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-04-24

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/03/2024	05/04/2024	150.10 X 150.98 X 150.47	22662	8.671	335.3	14.8	14.4
2	Drain Side Wall Concrete	M20	29/03/2024	05/04/2024	150.30 X 150.56 X 150.87	22629	8.527	324.3	14.3	
3	Drain Side Wall Concrete	M20	29/03/2024	05/04/2024	150.51 X 150.54 X 150.54	22658	8.656	318.9	14.1	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-05-21-09** **Date: 27/04/2024**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-04-24

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/03/2024	26/04/2024	150.19 X 150.80 X 150.94	22648	8.971	526.6	23.3	23.5
2	Drain Side Wall Concrete	M20	29/03/2024	26/04/2024	150.38 X 150.61 X 150.97	22649	8.171	537.6	23.7	
3	Drain Side Wall Concrete	M20	29/03/2024	26/04/2024	150.12 X 150.80 X 150.98	22638	8.471	530.9	23.5	

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-05-21-09**

Date: 08/04/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-24

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	01/04/2024	08/04/2024	150.46 X 150.23 X 150.96	22604	8.858	335.7	14.9	14.6
2	Culvert Bottom Raft Concrete	M20	01/04/2024	08/04/2024	150.18 X 150.62 X 150.91	22619	8.409	324.0	14.3	
3	Culvert Bottom Raft Concrete	M20	01/04/2024	08/04/2024	150.24 X 150.74 X 150.23	22648	8.414	329.9	14.6	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-05-21-09**

Date: 08/04/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-24

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	01/04/2024	08/04/2024	150.70 X 150.18 X 150.22	22632	8.506	326.7	14.4	14.5
2	Culvert Bottom Raft Concrete	M20	01/04/2024	08/04/2024	150.15 X 150.32 X 150.03	22571	8.562	323.4	14.3	
3	Culvert Bottom Raft Concrete	M20	01/04/2024	08/04/2024	150.09 X 150.10 X 150.24	22529	8.222	335.1	14.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-05-21-09** **Date: 02/05/2024**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-04-24

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	04/04/2024	02/05/2024	150.13 X 150.30 X 150.30	22565	8.736	527.4	23.4	
2	Culvert Side Wall Concrete	M20	04/04/2024	02/05/2024	150.00 X 150.13 X 150.12	22519	8.754	519.6	23.1	23.3
3	Culvert Side Wall Concrete	M20	04/04/2024	02/05/2024	150.97 X 150.33 X 150.11	22696	8.752	531.7	23.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-05-21-09** **Date: 12/04/2024**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-04-24

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	04/04/2024	11/04/2024	150.02 X 150.94 X 150.26	22644	8.426	318.6	14.1	14.4
2	Culvert Side Wall Concrete	M20	04/04/2024	11/04/2024	150.25 X 150.42 X 150.44	22600	8.233	338.5	15.0	
3	Culvert Side Wall Concrete	M20	04/04/2024	11/04/2024	150.40 X 150.66 X 150.75	22658	8.496	321.6	14.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-05-21-09**

Date: 02/05/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Concrete road and drains at Doddabettahalli Colony

Agency : Sri. PALAKSHAMURTHY H S, No 703, 6th Main Road, 4th Cross, Near Gandhi park, Vijayanagar, Bangalore 560040

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/31/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-04-24

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	04/04/2024	02/05/2024	150.43 X 150.19 X 150.67	22594	8.857	520.8	23.1	23.1
2	Culvert Side Wall Concrete	M20	04/04/2024	02/05/2024	150.99 X 150.41 X 150.66	22710	8.573	522.7	23.0	
3	Culvert Side Wall Concrete	M20	04/04/2024	02/05/2024	150.42 X 150.07 X 150.26	22574	8.266	525.0	23.3	

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